



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Application of: EMANUEL, GEORGE

For : IMPROVED LASER NOZZLE AND IODINE INJECTION FOR
COIL

U.S. Serial No.: 10/658,569

Filed: September 9, 2003

Group Art Unit: 3752

Examiner: Unassigned

CERTIFICATE OF MAILING

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Commissioner for Patents
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on

Name: Pamela K. Kerr

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to the provisions of 37 C.F.R. §1.97, Applicant hereby makes of record the references set forth in the attached modified PTO-1449. No inference should be made that the cited references are in fact material, are in fact prior art or that no better art exists. The cited patents are listed in numerical order and not in any order based on their pertinence. Copies of the cited references are included with this filing.

No representation is made, and no representation is intended, that more relevant material does not exist, or that the order of presentation of this material in any way reflects the relative pertinence. The references cited are not intended to constitute an admission of any kind. Specifically, this presentation is not an admission that the items listed are properly citable against the above-identified application.

It is requested that the Examiner fully consider the cited references and that they be cited on the front of any patent issuing from this application.

No fee is enclosed. However, if a fee for filing this Information Disclosure Statement is required, please charge such fee to Deposit Account No. 50-2180.

Respectfully submitted,

STORM & HEMINGWAY, L.L.P.



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Application Number	10/658,569
Filing Date	September 9, 2003
First Named Inventor	Emanuel, George
Group Art Unit	3752
Examiner Name	Unassigned
Attorney Docket Number	KSY 02655 PTUS

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KSY 02655 PTUS

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A (08-00)

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		AIAA 94-2416, "Historical Perspectives of the Chemical Oxygen - Iodine Laser (COIL)," by P.V. Avizonis & K.A. Truesdell, 25 th AIAA Plasmadynamics and Lasers Conference, June 20-23, 1994, Colorado Springs, CO	
		AIAA 94-2421, "COIL Development in the USA" by K.A. Truesdell, C.A. Helms & G.D. Hager, 25 th AIAA Plasmadynamics and Lasers Conference, June 20-23, 1994, Colorado Springs, CO	
		AIAA 2000-2425, "High Mach Number, High Pressure Recovery COIL Nozzle Aerodynamic Experiments" by T.T. Yan, R.A. Dickerson, L.F. Moon & Y.C. Hsia, 31 st AIAA Plasmadynamics and Lasers Conference, June 19-22, 2000, Denver, CO	
		"Gas, Chemical and Electrical Lasers and Intense Beam Control and Applications," by Santanu Basu, Steven J. Davis & Ernest A. Dorko, Proceedings of SPIE, January 24-25, 2000, San Jose, CA	
		"Computational Analysis of the Transonic Flow Field of Two-Dimensional Minimum Length Nozzles" by B.M. Argrow & G. Emanuel, <i>Journal of Fluids Engineering</i> , September 1991, Vol. 113	
		"Performance of an Aerospace Plane Propulsion Nozzle" by Y.Y. Bae & G. Emanuel, <i>Journal of Aircraft</i> , Vol. 28, Number 2, February 1991	
		"Comparison of Minimum Length Nozzles" by B.M. Argrow & G. Emanuel, <i>Journal of Fluids Engineering</i> , September 1998, Vol. 110	
		"Design of Nozzle Contraction for Uniform Sonic Throat Flow", T.-L. Ho & G. Emanuel, <i>AIAA Journal</i> , Vol. 28, No. 4 Technical Notes	
		"Gasdynamics: Theory and Applications" By George Emanuel, <i>AIAA Education Series</i> , 1986.	
		Handbook of Chemical Lasers, Ch. 5 "Gas Dynamics of Supersonic Mixing Lasers," G. Grohs & G. Emanuel, TRW Systems Group, 1976	
		Analytical Fluid Dynamics, Second Edition, George Emanuel, Professor, Department of Mechanical and Aerospace Engineering, University of Texas, Arlington, dated 2001	

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¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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